RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10536,963

Source: PCT

Date Processed by STIC: 5/15/06

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RAW SEQUENCE LISTING   DATE: 05/15/2006
PATENT APPLICATION: US/10/536,963   TIME: 10:06:17

          Input Set : A:\sequence listing.txt
          Output Set: N:\CRF4\05152006\J536963.raw

```
 3 <110> APPLICANT: KAWAMURA, Ryoichi
 4        NARUSE, Takeshi
 5        HIRASHIMA, Masaki
 6        KAMINAKA, Kazuyoshi
 7        MATSUDA, Junichi
 8        MAEDA, Hiroaki
 9        NODA, Mami
10        WADA, Keiji
12 <120> TITLE OF INVENTION: NOVEL REMEDIES FOR DISEASES OF ABNORMAL NEUROTRANSMISSION
14 <130> FILE REFERENCE: KAWAMURA69
16 <140> CURRENT APPLICATION NUMBER: 10/536,963
17 <141> CURRENT FILING DATE: 2005-05-31
19 <150> PRIOR APPLICATION NUMBER: JP 2000-348714
20 <151> PRIOR FILING DATE: 2002-11-29
22 <160> NUMBER OF SEQ ID NOS: 5
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 362
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (40)..(40)
35 <223> OTHER INFORMATION: Xaa represents selenocysteine
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <222> LOCATION: (281)..(281)
40 <223> OTHER INFORMATION: Xaa represents selenocysteine
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: (299)..(299)
45 <223> OTHER INFORMATION: Xaa represents selenocysteine
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <222> LOCATION: (311)..(311)
50 <223> OTHER INFORMATION: Xaa represents selenocysteine
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (326)..(326)
55 <223> OTHER INFORMATION: Xaa represents selenocysteine
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (333)..(333)
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Input Set : **A:\sequence listing.txt**
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60 <223> OTHER INFORMATION: Xaa represents selenocysteine
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (348)..(348)
65 <223> OTHER INFORMATION: Xaa represents selenocysteine
67 <220> FEATURE:
68 <221> NAME/KEY: misc_feature
69 <222> LOCATION: (350)..(350)
70 <223> OTHER INFORMATION: Xaa represents selenocysteine
72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <222> LOCATION: (357)..(357)
75 <223> OTHER INFORMATION: Xaa represents selenocysteine
77 <220> FEATURE:
78 <221> NAME/KEY: misc_feature
79 <222> LOCATION: (359)..(359)
80 <223> OTHER INFORMATION: Xaa represents selenocysteine
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84 Glu Ser Gln Asp Gln Ser Ser Leu Cys Lys Gln Pro Pro Ala Trp Ser
85 1               5                   10                  15
88 Ile Arg Asp Gln Asp Pro Met Leu Asn Ser Asn Gly Ser Val Thr Val
89              20                  25                  30
92 Val Ala Leu Leu Gln Ala Ser Xaa Tyr Leu Cys Ile Ile Glu Ala Ser
93          35                  40                  45
96 Lys Leu Glu Asp Leu Arg Val Lys Leu Lys Lys Glu Gly Tyr Ser Asn
97     50                  55                  60
100 Ile Ser Tyr Ile Val Val Asn His Gln Gly Ile Ser Ser Arg Leu Lys
101 65                  70                  75                  80
104 Tyr Thr His Leu Lys Asn Lys Val Ser Glu His Ile Pro Val Tyr Gln
105                 85                  90                  95
108 Gln Glu Glu Asn Gln Thr Asp Val Trp Thr Leu Leu Asn Gly Ser Lys
109                 100                 105                 110
112 Asp Asp Phe Leu Ile Tyr Asp Arg Cys Gly Arg Leu Val Tyr His Leu
113             115                 120                 125
116 Gly Leu Pro Phe Ser Phe Leu Thr Phe Pro Tyr Val Glu Glu Ala Ile
117     130                 135                 140
120 Lys Ile Ala Tyr Cys Glu Lys Lys Cys Gly Asn Cys Ser Leu Thr Thr
121 145                 150                 155                 160
124 Leu Lys Asp Glu Asp Phe Cys Lys Arg Val Ser Leu Ala Thr Val Asp
125                 165                 170                 175
128 Lys Thr Val Glu Thr Pro Ser Pro His Tyr His His Glu His His His
129                 180                 185                 190
132 Asn His Gly His Gln His Leu Gly Ser Ser Glu Leu Ser Glu Asn Gln
133             195                 200                 205
136 Gln Pro Gly Ala Pro Asn Ala Pro Thr His Pro Ala Pro Pro Gly Leu
137     210                 215                 220
140 His His His His Lys His Lys Gly Gln His Arg Gln Gly His Pro Glu
141 225                 230                 235                 240
144 Asn Arg Asp Met Pro Ala Ser Glu Asp Leu Gln Asp Leu Gln Lys Lys
```

W--> (arrow pointing to line 92)

```
        145                    245                    250                    255
        148 Leu Cys Arg Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr
        149            260            265            270
W--> 152 Asp Ser Glu Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu
        153        275            280            285
W--> 156 Ile Phe Glu Lys Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn
        157    290            295            300
W--> 160 Leu Pro Ser Leu Cys Ser Xaa Gln Gly Leu Arg Ala Glu Glu Asn Ile
        161 305            310            315            320
W--> 164 Thr Glu Ser Cys Gln Xaa Arg Leu Pro Pro Ala Ala Xaa Gln Ile Ser
        165            325            330            335
W--> 168 Gln Gln Leu Ile Pro Thr Glu Ala Ser Ala Ser Xaa Arg Xaa Lys Asn
        169        340            345            350
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        173        355            360
        176 <210> SEQ ID NO: 2
        177 <211> LENGTH: 103
        178 <212> TYPE: PRT
        179 <213> ORGANISM: Homo sapiens
        182 <220> FEATURE:
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        184 <222> LOCATION: (22)..(22)
        185 <223> OTHER INFORMATION: Xaa represents selenocysteine
        187 <220> FEATURE:
        188 <221> NAME/KEY: misc_feature
        189 <222> LOCATION: (40)..(40)
        190 <223> OTHER INFORMATION: Xaa represents selenocysteine
        192 <220> FEATURE:
        193 <221> NAME/KEY: misc_feature
        194 <222> LOCATION: (52)..(52)
        195 <223> OTHER INFORMATION: Xaa represents selenocysteine
        197 <220> FEATURE:
        198 <221> NAME/KEY: misc_feature
        199 <222> LOCATION: (67)..(67)
        200 <223> OTHER INFORMATION: Xaa represents selenocysteine
        202 <220> FEATURE:
        203 <221> NAME/KEY: misc_feature
        204 <222> LOCATION: (74)..(74)
        205 <223> OTHER INFORMATION: Xaa represents selenocysteine
        207 <220> FEATURE:
        208 <221> NAME/KEY: misc_feature
        209 <222> LOCATION: (89)..(89)
        210 <223> OTHER INFORMATION: Xaa represents selenocysteine
        212 <220> FEATURE:
        213 <221> NAME/KEY: misc_feature
        214 <222> LOCATION: (91)..(91)
        215 <223> OTHER INFORMATION: Xaa represents selenocysteine
        217 <220> FEATURE:
        218 <221> NAME/KEY: misc_feature
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PATENT APPLICATION: US/10/536,963   TIME: 10:06:17

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        219 <222> LOCATION: (98)..(98)
        220 <223> OTHER INFORMATION: Xaa represents selenocysteine
        222 <220> FEATURE:
        223 <221> NAME/KEY: misc_feature
        224 <222> LOCATION: (100)..(100)
        225 <223> OTHER INFORMATION: Xaa represents selenocysteine
        227 <400> SEQUENCE: 2
        229 Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
        230 1               5                   10                  15
W--> 233 Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu Ile Phe Glu
        234             20                  25                  30
W--> 237 Lys Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser
        238             35                  40                  45
W--> 241 Leu Cys Ser Xaa Gln Gly Leu Arg Ala Glu Glu Asn Ile Thr Glu Ser
        242     50                  55                  60
W--> 245 Cys Gln Xaa Arg Leu Pro Pro Ala Ala Xaa Gln Ile Ser Gln Gln Leu
        246 65                  70                  75                  80
W--> 249 Ile Pro Thr Glu Ala Ser Ala Ser Xaa Arg Xaa Lys Asn Gln Ala Lys
        250             85                  90                  95
W--> 253 Lys Xaa Glu Xaa Pro Ser Asn
        254             100
        257 <210> SEQ ID NO: 3
        258 <211> LENGTH: 33
        259 <212> TYPE: PRT
        260 <213> ORGANISM: Homo sapiens
        263 <220> FEATURE:
        264 <221> NAME/KEY: misc_feature
        265 <222> LOCATION: (22)..(22)
        266 <223> OTHER INFORMATION: Xaa represents selenocysteine
        268 <400> SEQUENCE: 3
        270 Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
        271 1               5                   10                  15
W--> 274 Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu Ile Phe Glu
        275             20                  25                  30
        278 Lys
        282 <210> SEQ ID NO: 4
        283 <211> LENGTH: 29
        284 <212> TYPE: PRT
        285 <213> ORGANISM: Homo sapiens
        288 <220> FEATURE:
        289 <221> NAME/KEY: misc_feature
        290 <222> LOCATION: (22)..(22)
        291 <223> OTHER INFORMATION: Xaa represents selenocysteine
        293 <400> SEQUENCE: 4
        295 Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
        296 1               5                   10                  15
W--> 299 Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu
        300             20                  25
        303 <210> SEQ ID NO: 5
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RAW SEQUENCE LISTING   DATE: 05/15/2006
PATENT APPLICATION: **US/10/536,963**   TIME: 10:06:17

Input Set : **A:\sequence listing.txt**
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304 <211> LENGTH: 28
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapiens
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311 <222> LOCATION: (7)..(7)
312 <223> OTHER INFORMATION: Xaa represents selenocysteine
314 <220> FEATURE:
315 <221> NAME/KEY: misc_feature
316 <222> LOCATION: (19)..(19)
317 <223> OTHER INFORMATION: Xaa represents selenocysteine
319 <400> SEQUENCE: 5
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W--> 321 Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser Leu
    322 1   5   10   15
W--> 325 Cys Ser Xaa Gln Gly Leu Arg Ala Glu Glu Asn Ile
    326   20   25

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/10/536,963**   TIME: 10:06:18

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\05152006\J536963.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 40,281,289,311,326,363,348,350,357,359
Seq#:2; Xaa Pos. 22,40,52,67,74,89,91,98,100
Seq#:3; Xaa Pos. 20
Seq#:4; Xaa Pos. 22
Seq#:5; Xaa Pos. 7,19

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/536,963

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Input Set : **A:\sequence listing.txt**
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```
L:92  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:272
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:288
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:304
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:320
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:336
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:352
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
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